

Utah Metro Occupational Projections 2000 - 2010

Alphabetical Listing

	Employment		Annual Job Openings			Hourly Wage		Training Level
	2000	2010	Growth	Replacements	Total	Entry	Average	
A								
Accountants and Auditors	6,250	8,080	180	100	280	\$14.00	\$20.80	Bachelor's degree
Actors	1,930	2,720	80	40	120			Long-Term OJT
Administrative Law Judges, Adjudicators, and Hearing Officers	130	150	0	0	10			Experience plus Degree
Administrative Services Managers	1,960	2,520	60	30	90	\$12.70	\$22.40	Experience plus Degree
Adult Literacy, Remedial Education, and GED Teachers and Instructors	150	210	10	0	10	\$8.60	\$14.60	Bachelor's degree
Advertising and Promotions Managers	840	1,190	30	10	50	\$13.20	\$22.90	Experience plus Degree
Advertising Sales Agents	1,460	1,980	50	30	80	\$10.30	\$18.40	Moderate OJT
Aerospace Engineering and Operations Technicians	70	80	0	0	0	\$11.20	\$17.70	Associate degree
Aerospace Engineers	210	250	0	10	10	\$22.90	\$31.50	Bachelor's degree
Agricultural Equipment Operators	40	50	0	0	0	\$9.10	\$12.90	Bachelor's degree
Agricultural Inspectors	50	60	0	0	0	\$13.10	\$16.40	Moderate OJT
Air Traffic Controllers	330	420	10	10	20	\$32.80	\$43.20	Long-Term OJT
Aircraft Cargo Handling Supervisors	70	90	0	0	0	\$8.80	\$16.80	Related Experience
Aircraft Mechanics and Service Technicians	670	790	10	10	30	\$14.60	\$19.80	Vocational
Aircraft Mechanics and Service Technicians, FAA Certified	750	830	10	20	20			Vocational
Airfield Operations Specialists	110	140	0	10	10			Short-Term OJT
Airline Pilots, Copilots, and Flight Engineers	1,490	1,540	10	30	40			Bachelor's degree
Amusement and Recreation Attendants	2,410	3,440	100	80	190	\$6.00	\$6.80	Short-Term OJT
Anesthesiologists	80	110	0	0	0			First professional degree
Animal Control Workers	100	130	0	10	10			Moderate OJT
Announcers	500	500	0	10	10	\$7.30	\$18.30	Long-Term OJT

*Annual Wage.

Note: Detail may not add to totals because of the exclusion of small occupations and rounding.

Source: Utah Department of Workforce Services, June 2003.

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Appraisers and Assessors of Real Estate	650	930	30	20	50			Vocational
Arbitrators, Mediators, and Conciliators	150	240	10	0	10			Experience plus Degree
Architects, Except Landscape and Naval	310	420	10	0	10			Bachelor's degree
Architectural and Civil Drafters	440	560	10	10	30	\$11.60	\$16.60	Vocational
Archivists, Curators, and Museum Technicians	120	160	0	0	10	\$12.40	\$17.40	Master's degree
Art Directors	180	240	10	10	10	\$16.70	\$28.00	Experience plus Degree
Art, Drama, and Music Teachers, Postsecondary	230	330	10	10	20	\$29,690	\$48,620 *	Doctoral degree
Athletes and Sports Competitors	800	1,050	30	20	40	\$22,520	\$32,410 *	Long-Term OJT
Athletic Trainers	120	160	0	0	10	\$30,860	\$42,620 *	Bachelor's degree
Audio and Video Equipment Technicians	840	1,070	20	30	50	\$9.60	\$12.00	Long-Term OJT
Audiologists	50	80	0	0	0	\$19.50	\$24.30	Master's degree
Audio-Visual Collections Specialists	50	70	0	0	0	\$11.10	\$21.50	Moderate OJT
Automotive Body and Related Repairers	1,190	1,480	30	30	60	\$10.20	\$16.40	Long-Term OJT
Automotive Glass Installers and Repairers	110	130	0	0	10			Long-Term OJT
Automotive Service Technicians and Mechanics	5,010	6,610	160	130	290	\$9.20	\$15.20	Vocational
Avionics Technicians	240	240	0	10	10	\$14.70	\$18.60	Vocational

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B								
Baggage Porters and Bellhops	200	240	10	10	10	\$6.10	\$8.90	Short-Term OJT
Bakers	1,700	2,180	50	30	80	\$7.10	\$10.30	Long-Term OJT
Barbers	60	70	0	0	0			Vocational
Bartenders	1,420	1,740	30	60	90	\$5.90	\$7.40	Short-Term OJT
Bicycle Repairers	40	50	0	0	0	\$8.10	\$9.40	Moderate OJT
Bill and Account Collectors	5,640	7,100	150	140	290	\$9.60	\$13.00	Short-Term OJT
Billing and Posting Clerks and Machine Operators	3,670	4,440	80	90	170	\$9.20	\$11.80	Short-Term OJT
Bindery Workers	1,010	1,260	30	30	50	\$6.80	\$9.70	Moderate OJT
Biochemists and Biophysicists	180	270	10	10	20	\$18.60	\$27.80	Doctoral degree
Biological Science Teachers, Postsecondary	100	150	0	0	10	\$41,290	\$65,150 *	Doctoral degree
Biological Technicians	240	350	10	10	20	\$9.70	\$15.00	Associate degree
Biomedical Engineers	70	100	0	0	10			Bachelor's degree
Boilermakers	120	120	0	0	0	\$14.70	\$20.40	Long-Term OJT
Bookbinders	70	90	0	0	0	\$11.10	\$13.20	Moderate OJT
Bookkeeping, Accounting, and Auditing Clerks	11,010	12,490	150	220	360	\$8.90	\$12.40	Moderate OJT
Brickmasons and Blockmasons	1,020	1,260	20	20	50	\$18.90	\$26.90	Long-Term OJT
Broadcast Technicians	170	180	0	10	10	\$8.90	\$14.70	Vocational
Brokerage Clerks	240	300	10	0	10	\$10.70	\$14.20	Moderate OJT
Budget Analysts	440	550	10	10	20	\$17.70	\$23.90	Bachelor's degree
Bus and Truck Mechanics and Diesel Engine Specialists	3,410	4,330	90	90	180	\$10.80	\$15.70	Vocational
Bus Drivers, School	2,110	2,620	50	50	100	\$7.40	\$10.30	Short-Term OJT
Bus Drivers, Transit and Intercity	780	980	20	20	40			Moderate OJT
Business Teachers, Postsecondary	240	350	10	10	20	\$40,330	\$61,040 *	Doctoral degree
Butchers and Meat Cutters	770	810	0	20	20	\$9.50	\$13.70	Long-Term OJT

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C								
Cabinetmakers and Bench Carpenters	1,880	2,140	30	60	90	\$8.10	\$11.40	Long-Term OJT
Camera Operators, Television, Video, and Motion Picture	400	590	20	10	30			Moderate OJT
Cardiovascular Technologists and Technicians	210	350	10	10	20			Associate degree
Cargo and Freight Agents	650	740	10	10	20	\$9.40	\$12.90	Moderate OJT
Carpenters	13,050	15,690	260	240	510	\$11.30	\$15.70	Long-Term OJT
Carpet Installers	670	850	20	10	30			Moderate OJT
Cartographers and Photogrammetrists	80	100	0	0	0	\$13.30	\$20.30	Bachelor's degree
Cashiers	23,810	30,150	640	1,080	1720	\$6.00	\$7.70	Short-Term OJT
Cement Masons and Concrete Finishers	2,560	2,800	20	20	50	\$9.70	\$14.80	Long-Term OJT
Cementing and Gluing Machine Operators and Tenders	100	120	0	0	0	\$8.30	\$10.40	Moderate OJT
Chefs and Head Cooks	460	540	10	10	20	\$7.40	\$11.60	Vocational
Chemical Engineers	140	160	0	0	0	\$23.90	\$32.10	Bachelor's degree
Chemical Equipment Operators and Tenders	150	190	0	0	10	\$8.10	\$11.60	Moderate OJT
Chemical Plant and System Operators	150	160	0	0	10			Long-Term OJT
Chemical Technicians	300	380	10	10	10	\$10.70	\$15.80	Associate degree
Chemistry Teachers, Postsecondary	40	60	0	0	0	\$44,130	\$80,120 *	Doctoral degree
Chemists	440	570	10	10	30	\$15.50	\$22.80	Bachelor's degree
Chief Executives	3,650	4,630	100	120	210	\$26.90	\$49.90	Experience plus Degree
Child Care Workers	1,680	2,630	90	70	160	\$6.00	\$7.60	Short-Term OJT
Child, Family, and School Social Workers	2,000	2,760	80	20	100	\$10.10	\$16.00	Bachelor's degree
Chiropractors	190	270	10	10	10			First professional degree
Choreographers	130	160	0	0	10	\$11.60	\$15.90	Related Experience
Civil Engineering Technicians	390	450	10	10	10	\$13.30	\$18.50	Associate degree
Civil Engineers	920	1,120	20	20	40	\$19.30	\$27.00	Bachelor's degree
Claims Adjusters, Examiners, and Investigators	840	1,210	40	10	50	\$12.60	\$20.70	Long-Term OJT
Cleaners of Vehicles and Equipment	2,440	3,180	70	100	170	\$6.20	\$8.20	Short-Term OJT
Cleaning, Washing, and Metal Pickling Equipment Operators and Tenders	180	170	0	0	0			Moderate OJT
Clergy	60	80	0	0	0	\$9.80	\$18.50	Master's degree
Clinical, Counseling, and School Psychologists	1,260	1,820	60	30	90	\$15.30	\$21.20	Master's degree
Coaches and Scouts	450	600	20	10	30	\$20,820	\$41,250 *	Long-Term OJT
Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	740	850	10	20	30	\$8.90	\$11.60	Moderate OJT
Coil Winders, Tapers, and Finishers	230	240	0	10	10			Short-Term OJT

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Coin, Vending, and Amusement Machine Servicers and Repairers	220	300	10	10	10	\$9.30	\$14.00	Moderate OJT
Combined Food Preparation and Serving Workers, Including Fast Food	12,190	17,050	490	750	1230	\$6.00	\$6.90	Short-Term OJT
Commercial and Industrial Designers	480	710	20	10	30	\$13.70	\$21.00	Bachelor's degree
Commercial Pilots	80	100	0	0	0	\$26,880	\$42,710 *	Vocational
Communications Teachers, Postsecondary	60	90	0	0	0	\$39,530	\$57,550 *	Doctoral degree
Compensation, Benefits, and Job Analysis Specialists	580	750	20	10	30	\$14.80	\$20.80	Bachelor's degree
Compliance Officers, Except Agriculture, Construction, Health and Safety, and Transportation	790	1,020	20	20	40	\$14.00	\$20.20	Long-Term OJT
Computer and Information Scientists, Research	400	570	20	0	20	\$23.00	\$32.80	Doctoral degree
Computer and Information Systems Managers	1,860	2,820	100	30	130	\$19.30	\$34.30	Experience plus Degree
Computer Hardware Engineers	750	910	20	10	30	\$19.00	\$29.00	Bachelor's degree
Computer Operators	1,480	1,300	0	30	30	\$8.00	\$13.60	Moderate OJT
Computer Programmers	4,170	4,730	60	90	150	\$18.40	\$27.80	Bachelor's degree
Computer Science Teachers, Postsecondary	80	110	0	0	10	\$39,730	\$75,250 *	Doctoral degree
Computer Software Engineers, Applications	3,660	6,840	320	30	340	\$23.10	\$34.80	Bachelor's degree
Computer Software Engineers, Systems Software	1,800	3,160	140	10	150			Bachelor's degree
Computer Support Specialists	7,900	15,540	760	30	800	\$8.10	\$12.20	Associate degree
Computer Systems Analysts	3,380	5,240	190	30	220	\$18.90	\$25.90	Bachelor's degree
Computer, Automated Teller, and Office Machine Repairers	1,570	1,790	20	20	40	\$12.70	\$19.10	Vocational
Computer-Controlled Machine Tool Operators, Metal and Plastic	730	880	20	30	40	\$10.80	\$14.00	Long-Term OJT
Concierges	140	180	0	10	10	\$7.00	\$9.60	Related Experience
Conservation Scientists	40	40	0	0	0	\$20.40	\$27.40	Bachelor's degree
Construction and Building Inspectors	280	330	10	10	10	\$14.50	\$19.10	Related Experience
Construction Laborers	5,520	6,910	140	50	190	\$8.40	\$11.40	Moderate OJT
Construction Managers	1,880	2,360	50	30	80	\$20.00	\$30.10	Bachelor's degree
Continuous Mining Machine Operators	90	90	0	0	0	\$14.40	\$15.70	Moderate OJT
Control and Valve Installers and Repairers, Except Mechanical Door	550	620	10	20	30	\$14.70	\$18.60	Moderate OJT
Conveyor Operators and Tenders	130	160	0	0	10	\$9.20	\$11.30	Short-Term OJT
Cooks, Fast Food	4,730	5,010	30	140	160	\$5.90	\$7.00	Short-Term OJT

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Cooks, Institution and Cafeteria	2,830	3,480	70	80	150	\$6.60	\$8.80	Long-Term OJT
Cooks, Restaurant	3,180	4,140	100	90	190	\$7.80	\$9.40	Long-Term OJT
Cooks, Short Order	660	780	10	20	30	\$6.80	\$7.60	Short-Term OJT
Correctional Officers and Jailers	1,600	2,330	70	40	110			Moderate OJT
Correspondence Clerks	260	300	0	10	10	\$9.80	\$12.60	Short-Term OJT
Cost Estimators	1,310	1,590	30	30	60	\$14.60	\$22.90	Bachelor's degree
Counter and Rental Clerks	3,260	4,360	110	150	260	\$6.30	\$8.50	Short-Term OJT
Counter Attendants, Cafeteria, Food Concession, and Coffee Shop	4,380	5,370	100	340	440	\$6.00	\$7.00	Short-Term OJT
Couriers and Messengers	1,280	1,410	10	40	50	\$6.30	\$8.40	Short-Term OJT
Court Reporters	40	50	0	0	0	\$13.40	\$18.30	Vocational
Court, Municipal, and License Clerks	940	1,230	30	20	40	\$5.80	\$10.00	Short-Term OJT
Crane and Tower Operators	210	220	0	10	10	\$12.80	\$17.80	Moderate OJT
Credit Analysts	510	610	10	10	20	\$10.90	\$20.50	Bachelor's degree
Credit Authorizers, Checkers, and Clerks	2,090	2,220	10	20	30	\$8.10	\$12.20	Short-Term OJT
Crossing Guards	810	1,020	20	30	50	\$6.00	\$7.80	Short-Term OJT
Crushing, Grinding, and Polishing Machine Setters, Operators, and Tenders	660	690	0	10	20	\$11.40	\$16.30	Moderate OJT
Customer Service Representatives	18,690	26,230	750	160	910	\$8.60	\$11.40	Moderate OJT
Cutters and Trimmers, Hand	120	130	0	0	0	\$7.80	\$10.10	Short-Term OJT
Cutting and Slicing Machine Setters, Operators, and Tenders	690	740	10	10	20	\$8.10	\$11.50	Moderate OJT
Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	790	780	0	20	20	\$8.90	\$11.40	Moderate OJT

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D								
Dancers	190	230	0	0	10	\$6.20	\$11.00	Long-Term OJT
Data Entry Keyers	5,040	5,430	40	80	120	\$7.90	\$10.00	Moderate OJT
Database Administrators	630	1,050	40	0	40	\$17.80	\$27.00	Bachelor's degree
Demonstrators and Product Promoters	1,010	1,280	30	30	60	\$8.80	\$10.70	Moderate OJT
Dental Assistants	2,530	3,510	100	50	140	\$7.60	\$9.70	Moderate OJT
Dental Hygienists	530	730	20	10	30			Associate degree
Dental Laboratory Technicians	360	500	10	10	20	\$7.60	\$10.80	Long-Term OJT
Dentists	810	1,090	30	20	50			First professional degree
Desktop Publishers	180	340	20	0	20	\$9.60	\$13.10	Vocational
Detectives and Criminal Investigators	270	380	10	10	20	\$16.70	\$22.90	Related Experience
Diagnostic Medical Sonographers	140	200	10	0	10	\$19.10	\$21.90	Associate degree
Dietetic Technicians	150	210	10	0	10	\$6.60	\$9.50	Moderate OJT
Dietitians and Nutritionists	280	370	10	10	20	\$14.20	\$18.30	Bachelor's degree
Dining Room and Cafeteria Attendants and Bartender Helpers	2,560	2,580	0	90	90	\$6.10	\$7.00	Short-Term OJT
Directors, Religious Activities and Education	80	110	0	0	0	\$14.20	\$21.50	Bachelor's degree
Dishwashers	2,140	2,130	0	80	80	\$6.00	\$7.10	Short-Term OJT
Dispatchers, Except Police, Fire, and Ambulance	1,720	2,100	40	30	70	\$11.50	\$17.50	Moderate OJT
Door-To-Door Sales Workers, News and Street Vendors, and Related Workers	120	130	0	0	10	\$6.00	\$12.60	Short-Term OJT
Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic	220	210	0	10	10			Moderate OJT
Driver/Sales Workers	3,020	3,490	50	40	90	\$6.00	\$11.30	Short-Term OJT
Drywall and Ceiling Tile Installers	1,900	2,240	30	20	50	\$10.70	\$14.70	Moderate OJT

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Earth Drillers, Except Oil and Gas	270	280	0	10	10	\$13.50	\$17.30	Moderate OJT
Economists	60	70	0	0	0			Bachelor's degree
Editors	820	1,140	30	30	60	\$12.50	\$21.10	Bachelor's degree
Education Administrators, Elementary and Secondary School	1,000	1,350	40	30	60	\$58,980	\$68,200 *	Experience plus Degree
Education Administrators, Postsecondary	690	890	20	20	40	\$17.10	\$27.00	Experience plus Degree
Education Administrators, Preschool and Child Care Center/Program	230	350	10	10	20	\$9.50	\$16.80	Experience plus Degree
Education Teachers, Postsecondary	180	260	10	10	10	\$32,320	\$47,200 *	Doctoral degree
Educational, Vocational, and School Counselors	1,360	1,960	60	30	90	\$10.00	\$16.30	Master's degree
Electric Motor, Power Tool, and Related Repairers	350	390	0	10	10	\$10.90	\$18.50	Vocational
Electrical and Electronic Engineering Technicians	1,950	2,300	40	40	80	\$8.10	\$17.20	Associate degree
Electrical and Electronic Equipment Assemblers	820	780	0	20	20	\$8.00	\$10.70	Short-Term OJT
Electrical and Electronics Drafters	250	300	0	10	10	\$13.20	\$20.00	Vocational
Electrical and Electronics Repairers, Commercial and Industrial Equipment	680	660	0	10	10	\$14.10	\$19.10	Vocational
Electrical and Electronics Repairers, Powerhouse, Substation, and Relay	160	150	0	0	0			Vocational
Electrical Engineers	550	620	10	10	20	\$22.80	\$32.10	Bachelor's degree
Electrical Power-Line Installers and Repairers	770	880	10	30	40	\$15.20	\$22.70	Long-Term OJT
Electricians	5,760	7,200	140	110	260	\$13.10	\$18.90	Long-Term OJT
Electromechanical Equipment Assemblers	380	410	0	10	10	\$10.40	\$13.20	Short-Term OJT
Electro-Mechanical Technicians	320	340	0	10	10	\$15.30	\$19.10	Associate degree
Electronic Equipment Installers and Repairers, Motor Vehicles	80	100	0	0	0			Vocational
Electronic Home Entertainment Equipment Installers and Repairers	870	900	0	20	20	\$11.20	\$13.90	Vocational
Electronics Engineers, Except Computer	790	850	10	20	20	\$24.70	\$30.40	Bachelor's degree
Elementary School Teachers, Except Special Education	7,220	9,890	270	160	430	\$25,680	\$37,470 *	Bachelor's degree

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Eligibility Interviewers, Government Programs	80	80	0	0	0			Moderate OJT
Emergency Management Specialists	110	140	0	0	10	\$16.90	\$22.70	Related Experience
Emergency Medical Technicians and Paramedics	900	1,330	40	20	70	\$7.70	\$10.50	Vocational
Employment, Recruitment, and Placement Specialists	870	1,040	20	20	30	\$12.00	\$18.60	Bachelor's degree
Engine and Other Machine Assemblers	60	70	0	0	0	\$12.40	\$15.40	Short-Term OJT
Engineering Managers	2,000	2,280	30	30	60	\$26.90	\$37.80	Experience plus Degree
Engineering Teachers, Postsecondary	80	120	0	0	10	\$42,460	\$76,660 *	Doctoral degree
English Language and Literature Teachers, Postsecondary	150	210	10	0	10	\$38,760	\$50,850 *	Doctoral degree
Environmental Engineering Technicians	110	160	10	0	10	\$11.80	\$17.10	Associate degree
Environmental Engineers	240	340	10	10	20	\$21.10	\$27.70	Bachelor's degree
Environmental Science and Protection Technicians, Including Health	200	280	10	10	20	\$11.60	\$18.00	Associate degree
Environmental Scientists and Specialists, Including Health	430	570	10	10	30	\$18.00	\$22.80	Bachelor's degree
Etchers and Engravers	50	60	0	0	0	\$9.80	\$11.30	Long-Term OJT
Excavating and Loading Machine and Dragline Operators	330	420	10	10	20	\$11.50	\$15.80	Moderate OJT
Executive Secretaries and Administrative Assistants	9,250	11,250	200	160	360	\$11.10	\$14.60	Moderate OJT
Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic	770	800	0	20	20	\$9.70	\$12.30	Moderate OJT
Extruding and Forming Machine Setters, Operators, and Tenders, Synthetic and Glass Fibers	130	140	0	0	0	\$8.10	\$11.10	Moderate OJT
Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders	540	630	10	10	20	\$8.50	\$11.30	Moderate OJT

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F								
Family and General Practitioners	950	1,240	30	20	40	\$38.20	\$57.10	First professional degree
Farm Equipment Mechanics	410	470	10	10	20			Vocational
Farm, Ranch, and Other Agricultural Managers	1,070	1,080	0	10	10	\$18.20	\$24.10	Experience plus Degree
Farmers and Ranchers	4,810	2,780	0	40	40			Long-Term OJT
Farmworkers and Laborers, Crop, Nursery, and Greenhouse	1,190	1,390	20	40	60			Long-Term OJT
Farmworkers, Farm and Ranch Animals	60	70	0	0	0	\$6.20	\$8.20	Moderate OJT
Fence Erectors	550	640	10	10	20			Moderate OJT
Fiberglass Laminators and Fabricators	150	180	0	0	10			Moderate OJT
File Clerks	1,790	2,090	30	60	90	\$7.40	\$9.80	Short-Term OJT
Film and Video Editors	100	140	0	0	10	\$9.40	\$16.60	Bachelor's degree
Financial Analysts	610	800	20	10	30	\$17.10	\$32.70	Bachelor's degree
Financial Examiners	300	390	10	10	20	\$13.10	\$22.00	Bachelor's degree
Financial Managers	4,750	5,910	120	70	190	\$14.90	\$29.10	Experience plus Degree
Fine Artists, Including Painters, Sculptors, and Illustrators	300	400	10	10	20			Long-Term OJT
Fire Fighters	2,030	2,620	60	50	110	\$8.10	\$13.60	Long-Term OJT
Fire Inspectors and Investigators	40	60	0	0	0	\$16.50	\$21.50	Related Experience
First-Line Supervisors/Managers of Construction Trades and Extraction Workers	4,770	6,180	140	120	270	\$15.10	\$21.00	Related Experience
First-Line Supervisors/Managers of Correctional Officers	250	370	10	0	20			Related Experience
First-Line Supervisors/Managers of Farming, Fishing, and Forestry Workers	80	110	0	0	0	\$12.40	\$17.00	Moderate OJT
First-Line Supervisors/Managers of Fire Fighting and Prevention Workers	390	490	10	10	20	\$18.90	\$25.50	Related Experience
First-Line Supervisors/Managers of Food Preparation and Serving Workers	5,400	6,570	120	140	260	\$9.80	\$12.00	Related Experience
First-Line Supervisors/Managers of Helpers, Laborers, and Material Movers, Hand	1,020	1,250	20	20	50	\$11.80	\$16.90	Related Experience
First-Line Supervisors/Managers of Housekeeping and Janitorial Workers	1,140	1,560	40	30	70	\$9.40	\$13.70	Related Experience
First-Line Supervisors/Managers of Landscaping, Lawn Service, and Groundskeeping Workers	870	1,210	30	10	40	\$11.00	\$15.00	Related Experience
First-Line Supervisors/Managers of Mechanics, Installers, and Repairers	2,790	3,440	70	70	140	\$12.50	\$20.90	Related Experience

*Annual Wage.

Note: Detail may not add to totals because of the exclusion of small occupations and rounding.

Source: Utah Department of Workforce Services, June 2003.

Utah Metro Occupational Projections 2000 - 2010

Alphabetical Listing

	Employment		Annual Job Openings			Hourly Wage		Training Level
	2000	2010	Growth	Replacements	Total	Entry	Average	
First-Line Supervisors/Managers of Non-Retail Sales Workers	2,850	3,320	50	50	90	\$12.70	\$22.60	Related Experience
First-Line Supervisors/Managers of Office and Administrative Support Workers	8,050	9,890	180	160	340	\$11.30	\$17.50	Related Experience
First-Line Supervisors/Managers of Personal Service Workers	670	860	20	20	40	\$8.30	\$13.70	Related Experience
First-Line Supervisors/Managers of Police and Detectives	710	960	20	20	40	\$22.10	\$26.60	Related Experience
First-Line Supervisors/Managers of Production and	4,480	4,800	30	120	150	\$13.00	\$19.40	Related Experience
First-Line Supervisors/Managers of Retail Sales Workers	12,440	15,700	330	200	530	\$9.60	\$15.10	Related Experience
First-Line Supervisors/Managers of Transportation and	1,490	1,840	40	30	70	\$11.30	\$19.30	Related Experience
Fitness Trainers and Aerobics Instructors	1,800	2,750	90	40	130	\$9.20	\$17.80	Vocational
Flight Attendants	1,260	1,430	20	40	60			Long-Term OJT
Floor Sanders and Finishers	190	260	10	0	10			Moderate OJT
Floral Designers	510	630	10	10	20	\$7.20	\$9.50	Moderate OJT
Food and Tobacco Roasting, Baking, and Drying Machine Operators and Tenders	60	70	0	0	0	\$7.00	\$9.10	Short-Term OJT
Food Batchmakers	460	540	10	10	20	\$6.80	\$9.30	Short-Term OJT
Food Cooking Machine Operators and Tenders	530	610	10	10	20	\$8.70	\$11.20	Short-Term OJT
Food Preparation Workers	4,880	6,230	140	190	320	\$6.40	\$8.00	Short-Term OJT
Food Scientists and Technologists	80	90	0	0	0			Bachelor's degree
Food Servers, Nonrestaurant	550	750	20	20	50	\$6.30	\$7.80	Short-Term OJT
Food Service Managers	2,650	3,430	80	40	110	\$10.50	\$15.70	Related Experience
Foreign Language and Literature Teachers, Postsecondary	50	70	0	0	0	\$38,230	\$55,860 *	Doctoral degree
Forensic Science Technicians	90	110	0	0	10	\$9.90	\$12.80	Associate degree
Forest and Conservation Technicians	170	210	10	10	10			Associate degree
Foresters	80	100	0	0	10			Bachelor's degree
Forging Machine Setters, Operators, and Tenders, Metal and Plastic	340	340	0	10	10	\$9.70	\$12.70	Moderate OJT
Foundry Mold and Coremakers	220	200	0	10	10	\$8.60	\$11.60	Moderate OJT
Funeral Attendants	140	200	10	0	10	\$7.80	\$15.00	Short-Term OJT
Funeral Directors	120	150	0	0	10	\$19.30	\$26.90	Associate degree
Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders	60	60	0	0	0	\$10.40	\$13.70	Moderate OJT
Furniture Finishers	300	340	0	10	20	\$8.70	\$12.50	Long-Term OJT

*Annual Wage.

Note: Detail may not add to totals because of the exclusion of small occupations and rounding.

Source: Utah Department of Workforce Services, June 2003.

Utah Metro Occupational Projections 2000 - 2010

Alphabetical Listing

	Employment		Annual Job Openings			Hourly Wage		Training Level
	2000	2010	Growth	Replacements	Total	Entry	Average	
G								
Gas Plant Operators	60	60	0	0	0	\$12.60	\$20.10	Long-Term OJT
General and Operations Managers	13,310	16,290	300	230	530	\$15.90	\$31.60	Experience plus Degree
Geographers	40	50	0	0	0	\$15.90	\$22.50	Master's degree
Geoscientists, Except Hydrologists and Geographers	80	100	0	0	0	\$18.90	\$26.60	Bachelor's degree
Glaziers	620	750	10	10	30	\$10.70	\$15.60	Long-Term OJT
Graders and Sorters, Agricultural Products	460	570	10	10	20	\$7.70	\$9.00	Related Experience
Graduate Teaching Assistants	1,550	2,220	70	40	110			Bachelor's degree
Graphic Designers	1,320	1,890	60	20	70	\$11.00	\$16.80	Bachelor's degree
Grinding and Polishing Workers, Hand	480	560	10	10	20	\$8.20	\$10.40	Moderate OJT
Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic	790	840	10	20	20	\$7.60	\$10.50	Moderate OJT

*Annual Wage.

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Source: Utah Department of Workforce Services, June 2003.

Utah Metro Occupational Projections 2000 - 2010

Alphabetical Listing

	Employment		Annual Job Openings			Hourly Wage		Training Level
	2000	2010	Growth	Replacements	Total	Entry	Average	
H								
Hairdressers, Hairstylists, and Cosmetologists	3,670	5,420	180	110	280	\$7.40	\$10.10	Vocational
Hazardous Materials Removal Workers	100	140	0	0	10			Moderate OJT
Health and Safety Engineers, Except Mining Safety Engineers and Inspectors	640	990	40	10	50			Bachelor's degree
Health Educators	140	190	10	0	10	\$13.60	\$19.90	Master's degree
Health Specialties Teachers, Postsecondary	90	130	0	0	10	\$31,140	\$47,210 *	Doctoral degree
Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic	120	140	0	0	0	\$9.10	\$12.80	Moderate OJT
Heating, Air Conditioning, and Refrigeration Mechanics and Installers	1,990	2,710	70	20	100	\$11.70	\$16.90	Long-Term OJT
Helpers--Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters	790	960	20	40	60			Short-Term OJT
Helpers--Carpenters	1,770	2,030	30	90	110	\$6.40	\$8.20	Short-Term OJT
Helpers--Electricians	310	380	10	20	20	\$8.00	\$11.10	Short-Term OJT
Helpers--Extraction Workers	240	250	0	10	10	\$9.80	\$13.80	Short-Term OJT
Helpers--Installation, Maintenance, and Repair Workers	910	1,140	20	50	70	\$7.10	\$10.50	Short-Term OJT
Helpers--Painters, Paperhangers, Plasterers, and Stucco Masons	520	620	10	30	40	\$7.50	\$9.20	Short-Term OJT
Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters	300	350	10	20	20	\$6.80	\$10.10	Short-Term OJT
Helpers--Production Workers	3,340	3,980	60	80	150	\$6.70	\$8.80	Short-Term OJT
Helpers--Roofers	230	300	10	10	20	\$9.40	\$10.00	Short-Term OJT
Highway Maintenance Workers	470	570	10	10	20	\$11.60	\$16.40	Moderate OJT
History Teachers, Postsecondary	60	80	0	0	0	\$43,400	\$61,270 *	Doctoral degree
Hoist and Winch Operators	70	100	0	0	10			Moderate OJT
Home Appliance Repairers	140	160	0	0	10	\$11.30	\$15.30	Long-Term OJT
Home Health Aides	1,680	2,420	70	20	100	\$7.40	\$9.60	Short-Term OJT
Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop	1,800	2,210	40	60	100	\$6.00	\$7.30	Short-Term OJT
Hotel, Motel, and Resort Desk Clerks	1,070	1,610	50	50	100	\$7.50	\$8.70	Short-Term OJT
Human Resources Assistants, Except Payroll and Timekeeping	1,030	1,280	30	20	50	\$10.40	\$14.10	Short-Term OJT
Human Resources Managers	1,280	1,540	30	20	50	\$16.80	\$27.20	Experience plus Degree
Hydrologists	80	110	0	0	10	\$21.20	\$29.90	Bachelor's degree

*Annual Wage.

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Source: Utah Department of Workforce Services, June 2003.

Utah Metro Occupational Projections 2000 - 2010

Alphabetical Listing

	Employment		Annual Job Openings			Hourly Wage		Training Level
	2000	2010	Growth	Replacements	Total	Entry	Average	
Industrial Engineering Technicians	660	750	10	10	20	\$12.70	\$19.20	Associate degree
Industrial Engineers	970	1,080	10	20	30	\$19.90	\$27.60	Bachelor's degree
Industrial Machinery Mechanics	1,250	1,370	10	30	50	\$14.80	\$19.60	Long-Term OJT
Industrial Production Managers	1,300	1,500	20	20	40	\$18.40	\$29.40	Bachelor's degree
Industrial Truck and Tractor Operators	3,460	4,070	60	50	110	\$9.20	\$11.90	Short-Term OJT
Inspectors, Testers, Sorters, Samplers, and Weighers	2,440	2,450	0	50	60	\$8.60	\$14.00	Moderate OJT
Instructional Coordinators	760	1,050	30	10	40	\$11.00	\$17.30	Master's degree
Insulation Workers	500	600	10	20	30			Moderate OJT
Insurance Claims and Policy Processing Clerks	1,500	1,400	0	30	30	\$10.20	\$12.60	Moderate OJT
Insurance Sales Agents	2,400	3,140	70	70	140	\$15.50	\$24.80	Bachelor's degree
Insurance Underwriters	290	370	10	0	10	\$13.40	\$19.50	Bachelor's degree
Interior Designers	230	300	10	0	10	\$10.70	\$17.30	Bachelor's degree
Internists, General	110	150	0	0	10	\$53.30	\$63.80	First professional degree
Interpreters and Translators	330	440	10	10	20	\$8.50	\$12.70	Long-Term OJT
Interviewers, Except Eligibility and Loan	1,780	2,770	100	40	140	\$6.20	\$8.40	Short-Term OJT

*Annual Wage.

Note: Detail may not add to totals because of the exclusion of small occupations and rounding.

Source: Utah Department of Workforce Services, June 2003.

Utah Metro Occupational Projections 2000 - 2010

Alphabetical Listing

	Employment		Annual Job Openings			Hourly Wage		Training Level
	2000	2010	Growth	Replacements	Total	Entry	Average	
J								
Janitors and Cleaners, Except Maids and Housekeeping Cleaners	14,220	19,030	480	260	740	\$6.30	\$8.60	Short-Term OJT
Jewelers and Precious Stone and Metal Workers	560	730	20	20	30			Vocational
Job Printers	490	640	20	10	30	\$9.20	\$14.50	Long-Term OJT
Judges, Magistrate Judges, and Magistrates	120	140	0	0	10	\$34.00	\$44.10	Experience plus Degree

*Annual Wage.

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Source: Utah Department of Workforce Services, June 2003.

Utah Metro Occupational Projections 2000 - 2010

Alphabetical Listing

	Employment		Annual Job Openings			Hourly Wage		Training Level
	2000	2010	Growth	Replacements	Total	Entry	Average	
K								
Kindergarten Teachers, Except Special Education	350	490	10	0	20	\$19,990	\$32,870 *	Bachelor's degree

*Annual Wage.

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Source: Utah Department of Workforce Services, June 2003.

Utah Metro Occupational Projections 2000 - 2010

Alphabetical Listing

	Employment		Annual Job Openings			Hourly Wage		Training Level
	2000	2010	Growth	Replaces- ments	Total	Entry	Average	
L								
Laborers and Freight, Stock, and Material Movers, Hand	10,590	12,690	210	360	570	\$7.30	\$10.30	Short-Term OJT
Landscape Architects	90	130	0	0	10	\$16.70	\$22.60	Bachelor's degree
Landscaping and Groundskeeping Workers	4,390	6,160	180	110	290	\$7.10	\$9.70	Short-Term OJT
Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic	350	330	0	10	10	\$9.20	\$13.70	Moderate OJT
Laundry and Dry-Cleaning Workers	900	1,150	30	20	50	\$6.80	\$8.10	Moderate OJT
Law Clerks	460	520	10	0	10	\$10.40	\$15.00	Bachelor's degree
Law Teachers, Postsecondary	40	60	0	0	0			Doctoral degree
Lawyers	3,420	4,350	90	30	120	\$34.00	\$50.90	First professional degree
Lay-Out Workers, Metal and Plastic	120	110	0	0	0	\$10.00	\$12.70	Moderate OJT
Legal Secretaries	1,760	2,150	40	30	70	\$11.80	\$14.90	Vocational
Legislators	350	460	10	10	20	\$6.20	\$10.80	Experience plus Degree
Librarians	920	1,160	20	20	40	\$12.60	\$19.20	Master's degree
Library Assistants, Clerical	680	910	20	30	50	\$6.20	\$7.40	Short-Term OJT
Library Technicians	1,220	1,710	50	50	100	\$7.10	\$9.60	Short-Term OJT
Licensed Practical and Licensed Vocational Nurses	2,580	3,410	80	70	150	\$11.50	\$14.60	Vocational
Loan Counselors	150	180	0	0	10			Bachelor's degree
Loan Interviewers and Clerks	1,510	1,220	0	10	10	\$10.20	\$13.20	Short-Term OJT
Loan Officers	2,390	2,740	40	50	80	\$12.90	\$19.90	Bachelor's degree
Locker Room, Coatroom, and Dressing Room Attendants	50	70	0	0	0	\$7.60	\$9.50	Related Experience
Locksmiths and Safe Repairers	70	90	0	0	0	\$8.90	\$13.80	Moderate OJT
Locomotive Engineers	410	520	10	20	30			Short-Term OJT
Lodging Managers	310	400	10	0	10	\$12.80	\$17.40	Related Experience
Logging Equipment Operators	40	40	0	0	0			Moderate OJT

*Annual Wage.

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Utah Metro Occupational Projections 2000 - 2010

Alphabetical Listing

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M								
Machine Feeders and Offbearers	660	660	0	20	20	\$7.20	\$9.90	Short-Term OJT
Machinists	2,200	2,360	20	50	60	\$11.20	\$15.90	Long-Term OJT
Maids and Housekeeping Cleaners	5,880	8,300	240	130	370	\$6.10	\$7.60	Short-Term OJT
Mail Clerks and Mail Machine Operators, Except Postal Service	1,850	2,010	20	50	70	\$8.50	\$9.80	Short-Term OJT
Maintenance and Repair Workers, General	6,140	7,210	110	80	190	\$8.70	\$13.70	Long-Term OJT
Maintenance Workers, Machinery	860	1,020	20	20	40	\$11.40	\$16.30	Long-Term OJT
Management Analysts	2,010	2,930	90	20	110	\$18.40	\$31.50	Experience plus Degree
Manicurists and Pedicurists	70	110	0	0	10			Vocational
Market Research Analysts	560	710	20	10	30	\$13.40	\$23.80	Bachelor's degree
Marketing Managers	1,700	2,310	60	30	90	\$20.70	\$35.00	Experience plus Degree
Marriage and Family Therapists	90	120	0	0	10	\$15.00	\$19.50	Master's degree
Massage Therapists	340	490	20	10	20	\$9.00	\$18.40	Vocational
Materials Engineers	190	200	0	0	10	\$19.30	\$29.00	Bachelor's degree
Mathematical Science Teachers, Postsecondary	150	210	10	0	10	\$40,060	\$71,340 *	Doctoral degree
Meat, Poultry, and Fish Cutters and Trimmers	170	200	0	0	10	\$8.00	\$10.60	Short-Term OJT
Mechanical Door Repairers	60	80	0	0	0			Moderate OJT
Mechanical Drafters	490	600	10	20	30	\$13.10	\$18.90	Vocational
Mechanical Engineering Technicians	400	460	10	10	10	\$14.00	\$19.10	Associate degree
Mechanical Engineers	1,310	1,490	20	40	60	\$21.10	\$28.80	Bachelor's degree
Medical and Clinical Laboratory Technicians	1,100	1,510	40	30	70			Associate degree
Medical and Clinical Laboratory Technologists	870	1,160	30	20	50	\$13.00	\$18.80	Bachelor's degree
Medical and Health Services Managers	1,470	2,210	70	30	100	\$18.00	\$29.90	Experience plus Degree
Medical and Public Health Social Workers	470	680	20	10	30	\$10.90	\$18.70	Bachelor's degree
Medical Appliance Technicians	1,180	1,510	30	30	70	\$8.80	\$11.70	Long-Term OJT
Medical Assistants	2,440	3,540	110	70	180	\$8.20	\$10.00	Moderate OJT
Medical Equipment Preparers	340	480	10	10	20	\$12.70	\$14.10	Short-Term OJT
Medical Equipment Repairers	220	270	10	10	10			Moderate OJT
Medical Records and Health Information Technicians	890	1,320	40	20	60	\$8.40	\$11.20	Associate degree

*Annual Wage.

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Utah Metro Occupational Projections 2000 - 2010

Alphabetical Listing

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	2000	2010	Growth	Replacements	Total	Entry	Average	
Medical Scientists, Except Epidemiologists	790	1,220	40	20	60			Doctoral degree
Medical Secretaries	1,360	1,860	50	20	70	\$9.10	\$11.50	Vocational
Medical Transcriptionists	340	480	10	10	20	\$9.50	\$12.50	Vocational
Meeting and Convention Planners	280	380	10	10	20	\$10.60	\$14.90	Bachelor's degree
Mental Health and Substance Abuse Social Workers	510	740	20	10	30	\$13.00	\$17.60	Master's degree
Mental Health Counselors	830	1,140	30	20	50	\$9.00	\$14.50	Master's degree
Merchandise Displayers and Window Trimmers	550	650	10	10	20	\$7.60	\$10.90	Moderate OJT
Metal-Refining Furnace Operators and Tenders	170	170	0	10	10	\$10.90	\$15.20	Moderate OJT
Meter Readers, Utilities	190	150	0	10	10	\$9.30	\$12.50	Short-Term OJT
Microbiologists	90	130	0	0	10	\$13.90	\$20.30	Doctoral degree
Middle School Teachers, Except Special and Vocational Education	4,320	5,740	140	100	240	\$27,530	\$38,240 *	Bachelor's degree
Milling and Planing Machine Setters, Operators, and Tenders, Metal and Plastic	620	580	0	20	20	\$9.40	\$11.50	Moderate OJT
Millwrights	220	240	0	10	10	\$10.30	\$15.60	Long-Term OJT
Mine Cutting and Channeling Machine Operators	100	100	0	0	0			Related Experience
Mixing and Blending Machine Setters, Operators, and Tenders	570	690	10	10	20	\$8.70	\$11.80	Moderate OJT
Mobile Heavy Equipment Mechanics, Except Engines	1,040	1,230	20	30	50	\$12.70	\$17.10	Vocational
Model Makers, Metal and Plastic	240	230	0	10	10			Moderate OJT
Model Makers, Wood	80	100	0	0	10	\$8.60	\$10.90	Long-Term OJT
Molders, Shapers, and Casters, Except Metal and Plastic	310	360	0	10	10	\$8.10	\$11.20	Moderate OJT
Molding, Coremaking, and Casting Machine Setters,	590	670	10	10	20	\$8.80	\$11.10	Moderate OJT
Motion Picture Projectionists	50	30	0	0	0	\$6.10	\$7.10	Short-Term OJT
Motorboat Mechanics	120	150	0	0	10			Long-Term OJT
Motorcycle Mechanics	170	210	0	10	10	\$10.00	\$14.60	Long-Term OJT
Multi-Media Artists and Animators	1,600	2,130	50	40	90	\$11.70	\$18.90	Bachelor's degree
Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	540	610	10	10	20	\$9.50	\$13.60	Moderate OJT
Musical Instrument Repairers and Tuners	40	50	0	0	0			Long-Term OJT
Musicians and Singers	400	580	20	10	30	\$12,730	\$37,950 *	Long-Term OJT

*Annual Wage.

Note: Detail may not add to totals because of the exclusion of small occupations and rounding.

Source: Utah Department of Workforce Services, June 2003.

Utah Metro Occupational Projections 2000 - 2010

Alphabetical Listing

	Employment		Annual Job Openings			Hourly Wage		Training Level
	2000	2010	Growth	Replacements	Total	Entry	Average	
N								
Natural Sciences Managers	510	650	10	10	20	\$23.80	\$34.30	Experience plus Degree
Network and Computer Systems Administrators	1,400	2,450	110	10	110	\$17.00	\$24.50	Bachelor's degree
Network Systems and Data Communications Analysts	1,030	1,690	70	0	70	\$15.30	\$24.40	Bachelor's degree
New Accounts Clerks	480	560	10	10	20	\$9.60	\$10.60	Related Experience
News Analysts, Reporters and Correspondents	410	480	10	10	20	\$11.20	\$19.60	Long-Term OJT
Nonfarm Animal Caretakers	380	530	20	10	20	\$6.60	\$9.10	Short-Term OJT
Nuclear Medicine Technologists	50	70	0	0	0	\$18.90	\$21.50	Associate degree
Numerical Tool and Process Control Programmers	120	140	0	0	10	\$13.80	\$16.70	Long-Term OJT
Nursing Aides, Orderlies, and Attendants	6,420	9,360	290	80	380	\$7.70	\$8.80	Short-Term OJT
Nursing Instructors and Teachers, Postsecondary	160	230	10	0	10	\$44,490	\$58,470 *	Master's degree

*Annual Wage.

Note: Detail may not add to totals because of the exclusion of small occupations and rounding.

Source: Utah Department of Workforce Services, June 2003.

Utah Metro Occupational Projections 2000 - 2010

Alphabetical Listing

	Employment		Annual Job Openings			Hourly Wage		Training Level
	2000	2010	Growth	Replacements	Total	Entry	Average	
O								
Obstetricians and Gynecologists	70	90	0	0	0	\$66.80	\$68.70	First professional degree
Occupational Health and Safety Specialists and Technicians	140	150	0	0	10	\$17.70	\$27.80	Bachelor's degree
Occupational Therapist Aides	80	110	0	0	10	\$8.40	\$10.00	Short-Term OJT
Occupational Therapist Assistants	160	230	10	10	10	\$11.70	\$15.00	Associate degree
Occupational Therapists	440	620	20	10	30	\$12.30	\$21.00	Bachelor's degree
Office Clerks, General	19,680	24,710	500	380	880	\$7.70	\$10.60	Short-Term OJT
Office Machine Operators, Except Computer	1,030	1,100	10	40	40	\$8.20	\$12.50	Short-Term OJT
Operating Engineers and Other Construction Equipment Operators	2,600	2,970	40	60	100	\$12.10	\$16.40	Moderate OJT
Operations Research Analysts	2,440	3,160	70	80	150			Master's degree
Ophthalmic Laboratory Technicians	160	170	0	0	10			Moderate OJT
Opticians, Dispensing	450	590	10	10	20	\$8.30	\$10.70	Long-Term OJT
Optometrists	220	280	10	0	10			First professional degree
Order Clerks	2,950	2,840	0	60	60	\$8.90	\$11.80	Short-Term OJT
Outdoor Power Equipment and Other Small Engine Mechanics	230	270	0	10	10	\$8.10	\$11.30	Moderate OJT

*Annual Wage.

Note: Detail may not add to totals because of the exclusion of small occupations and rounding.

Source: Utah Department of Workforce Services, June 2003.

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P								
Packaging and Filling Machine Operators and Tenders	2,880	3,580	70	60	130	\$7.90	\$10.40	Short-Term OJT
Packers and Packagers, Hand	5,240	6,360	110	130	250	\$6.10	\$8.10	Short-Term OJT
Painters, Construction and Maintenance	3,460	4,570	110	70	180	\$9.60	\$13.20	Moderate OJT
Painters, Transportation Equipment	210	260	10	10	10	\$11.20	\$16.60	Moderate OJT
Painting, Coating, and Decorating Workers	130	160	0	0	10	\$7.50	\$10.00	Short-Term OJT
Paper Goods Machine Setters, Operators, and Tenders	760	840	10	20	20	\$9.70	\$12.70	Moderate OJT
Paralegals and Legal Assistants	730	1,020	30	10	30	\$14.40	\$19.20	Associate degree
Parking Lot Attendants	630	850	20	10	30			Short-Term OJT
Parts Salespersons	1,610	1,780	20	50	70	\$9.00	\$13.10	Moderate OJT
Patternmakers, Metal and Plastic	70	60	0	0	0	\$7.60	\$12.30	Moderate OJT
Patternmakers, Wood	80	100	0	0	10	\$9.40	\$13.30	Long-Term OJT
Paving, Surfacing, and Tamping Equipment Operators	270	330	10	10	10	\$13.90	\$16.00	Moderate OJT
Payroll and Timekeeping Clerks	1,110	1,250	10	30	50	\$10.20	\$13.50	Short-Term OJT
Pediatricians, General	110	150	0	0	10	\$45.70	\$60.30	First professional degree
Personal and Home Care Aides	1,140	1,820	70	20	90	\$7.20	\$8.00	Short-Term OJT
Personal Financial Advisors	560	910	40	10	40	\$15.00	\$24.10	Bachelor's degree
Pest Control Workers	830	1,220	40	20	60			Moderate OJT
Pesticide Handlers, Sprayers, and Applicators, Vegetation	120	150	0	0	10			Moderate OJT
Petroleum Engineers	50	60	0	0	0			Bachelor's degree
Petroleum Pump System Operators, Refinery Operators, and Gaugers	280	300	0	10	10	\$17.60	\$22.20	Long-Term OJT
Pharmacists	1,430	2,140	70	40	110	\$28.80	\$35.50	First professional degree
Pharmacy Aides	220	290	10	10	10	\$7.60	\$10.20	Short-Term OJT
Pharmacy Technicians	1,380	2,150	80	40	110	\$10.00	\$12.20	Moderate OJT
Philosophy and Religion Teachers, Postsecondary	60	80	0	0	0			Doctoral degree
Photographers	400	570	20	10	30	\$9.40	\$16.80	Long-Term OJT
Photographic Process Workers	260	240	0	10	10	\$7.90	\$10.30	Moderate OJT
Photographic Processing Machine Operators	220	250	0	10	10	\$7.60	\$9.30	Short-Term OJT
Physical Therapist Aides	430	630	20	10	30	\$7.50	\$8.70	Short-Term OJT
Physical Therapist Assistants	200	300	10	10	20	\$12.10	\$15.00	Associate degree
Physical Therapists	680	960	30	20	50	\$17.70	\$24.60	Master's degree
Physician Assistants	290	420	10	10	20	\$23.90	\$33.00	Bachelor's degree
Physics Teachers, Postsecondary	60	80	0	0	0	\$44,490	\$78,650 *	Doctoral degree
Pile-Driver Operators	70	90	0	0	0			Moderate OJT

*Annual Wage.

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Pipelayers	930	1,130	20	20	40	\$10.00	\$12.90	Moderate OJT
Plasterers and Stucco Masons	1,260	1,540	30	30	50	\$11.10	\$15.30	Long-Term OJT
Plating and Coating Machine Setters, Operators, and Tenders, Metal and Plastic	520	510	0	10	10	\$10.00	\$13.80	Moderate OJT
Plumbers, Pipefitters, and Steamfitters	3,530	4,250	70	60	130	\$13.20	\$19.50	Long-Term OJT
Police and Sheriff's Patrol Officers	2,520	3,700	120	50	170	\$14.50	\$18.00	Long-Term OJT
Police, Fire, and Ambulance Dispatchers	420	570	20	10	20	\$10.70	\$13.80	Moderate OJT
Postal Service Clerks	390	430	0	10	10	\$16.50	\$18.20	Short-Term OJT
Postal Service Mail Carriers	1,510	1,680	20	50	60	\$16.30	\$18.30	Short-Term OJT
Postal Service Mail Sorters, Processors, and Processing Machine Operators	900	1,000	10	20	30	\$9.50	\$14.90	Short-Term OJT
Pourers and Casters, Metal	130	140	0	0	10	\$10.90	\$14.50	Moderate OJT
Power Plant Operators	180	190	0	10	10	\$15.90	\$21.30	Long-Term OJT
Prepress Technicians and Workers	680	680	0	20	20	\$8.40	\$13.30	Long-Term OJT
Preschool Teachers, Except Special Education	4,280	5,630	140	50	190	\$7.60	\$9.20	Bachelor's degree
Pressers, Textile, Garment, and Related Materials	440	570	10	10	20	\$6.00	\$7.00	Short-Term OJT
Printing Machine Operators	1,220	1,520	30	30	60	\$9.40	\$13.70	Moderate OJT
Private Detectives and Investigators	90	110	0	0	10	\$7.80	\$11.90	Related Experience
Probation Officers and Correctional Treatment Specialists	980	1,380	40	20	50	\$11.70	\$15.40	Bachelor's degree
Procurement Clerks	680	660	0	20	20	\$10.00	\$14.00	Short-Term OJT
Producers and Directors	270	360	10	10	20	\$19,650	\$42,100 *	Experience plus Degree
Production, Planning, and Expediting Clerks	2,080	2,500	40	40	80	\$8.80	\$14.90	Short-Term OJT
Proofreaders and Copy Markers	200	240	0	10	10	\$7.70	\$10.30	Short-Term OJT
Property, Real Estate, and Community Association Managers	1,560	2,270	70	30	100	\$7.00	\$15.70	Bachelor's degree
Psychiatric Aides	210	320	10	0	10	\$7.80	\$9.60	Short-Term OJT
Psychiatric Technicians	1,260	1,650	40	30	70	\$8.30	\$9.70	Vocational
Psychiatrists	130	180	10	0	10	\$33.20	\$54.00	First professional degree
Psychology Teachers, Postsecondary	80	120	0	0	10	\$40,960	\$58,580 *	Doctoral degree
Public Relations Managers	510	760	30	10	30	\$18.80	\$30.10	Experience plus Degree
Public Relations Specialists	810	1,200	40	10	50	\$13.30	\$19.50	Bachelor's degree
Pump Operators, Except Wellhead Pumps	80	80	0	0	0			Moderate OJT
Purchasing Agents and Buyers, Farm Products	70	80	0	0	0	\$11.10	\$18.30	Related Experience
Purchasing Agents, Except Wholesale, Retail, and Farm Products	1,420	1,730	30	30	60	\$14.40	\$21.00	Bachelor's degree
Purchasing Managers	650	680	0	20	20	\$15.50	\$27.00	Experience plus Degree

*Annual Wage.

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R								
Radiation Therapists	50	70	0	0	0	\$23.60	\$28.70	Associate degree
Radio Mechanics	40	30	0	0	0	\$13.50	\$19.90	Vocational
Radiologic Technologists and Technicians	900	1,250	40	20	60	\$14.00	\$17.20	Associate degree
Rail Car Repairers	130	110	0	0	0	\$18.10	\$21.50	Long-Term OJT
Rail Yard Engineers, Dinkey Operators, and Hostlers	130	140	0	10	10	\$14.70	\$17.70	Related Experience
Railroad Conductors and Yardmasters	480	490	0	20	20			Related Experience
Rail-Track Laying and Maintenance Equipment Operators	260	200	0	10	10			Moderate OJT
Real Estate Brokers	240	330	10	10	10	\$16.20	\$30.00	Related Experience
Real Estate Sales Agents	800	1,080	30	20	50	\$9.00	\$15.90	Vocational
Receptionists and Information Clerks	7,740	10,050	230	170	400	\$7.60	\$9.70	Short-Term OJT
Recreation and Fitness Studies Teachers, Postsecondary	100	150	10	0	10	\$29,220	\$48,690 *	Master's degree
Recreation Workers	2,320	3,170	90	50	130	\$6.00	\$8.10	Bachelor's degree
Recreational Therapists	310	420	10	10	20	\$8.30	\$13.50	Bachelor's degree
Recreational Vehicle Service Technicians	100	140	0	0	10	\$11.20	\$15.20	Long-Term OJT
Refuse and Recyclable Material Collectors	280	340	10	10	20	\$9.80	\$15.20	Short-Term OJT
Registered Nurses	12,500	17,950	550	250	800	\$18.00	\$22.40	Associate degree
Rehabilitation Counselors	510	660	20	10	30	\$7.80	\$13.60	Master's degree
Reinforcing Iron and Rebar Workers	200	260	10	0	10			Long-Term OJT
Reservation and Transportation Ticket Agents and Travel Clerks	4,280	5,130	90	120	200	\$8.10	\$12.80	Short-Term OJT
Residential Advisors	230	320	10	10	10	\$7.40	\$9.40	Moderate OJT
Respiratory Therapists	390	670	30	10	40			Associate degree
Respiratory Therapy Technicians	110	180	10	0	10			Vocational
Retail Salespersons	29,420	37,310	790	1,130	1920	\$6.50	\$9.90	Short-Term OJT
Riggers	340	410	10	10	20			Short-Term OJT
Rock Splitters, Quarry	50	60	0	0	0	\$9.30	\$13.20	Moderate OJT
Rolling Machine Setters, Operators, and Tenders, Metal and Plastic	380	360	0	10	10	\$8.30	\$13.60	Moderate OJT
Roofers	1,400	1,860	50	40	80	\$7.80	\$12.30	Moderate OJT
Roustabouts, Oil and Gas	70	70	0	0	0			Moderate OJT

*Annual Wage.

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Utah Metro Occupational Projections 2000 - 2010

Alphabetical Listing

	Employment		Annual Job Openings			Hourly Wage		Training Level
	2000	2010	Growth	Replaces- ments	Total	Entry	Average	
S								
Sales Engineers	2,150	2,740	60	60	110			Bachelor's degree
Sales Managers	3,020	4,150	110	40	160	\$16.60	\$30.40	Experience plus Degree
Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	11,150	12,910	180	310	480	\$12.80	\$22.70	Moderate OJT
Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	3,950	4,540	60	110	170	\$17.00	\$28.20	Moderate OJT
Sawing Machine Setters, Operators, and Tenders, Wood	290	330	0	10	20	\$7.30	\$9.60	Moderate OJT
Secondary School Teachers, Except Special and Vocational	5,570	8,010	240	170	410	\$33,020	\$47,220 *	Bachelor's degree
Secretaries, Except Legal, Medical, and Executive	8,710	9,920	120	150	270	\$8.70	\$11.40	Moderate OJT
Securities, Commodities, and Financial Services Sales Agents	2,450	3,470	100	20	120	\$15.40	\$29.60	Bachelor's degree
Security and Fire Alarm Systems Installers	200	280	10	0	10	\$13.80	\$19.40	Vocational
Security Guards	5,650	7,420	180	150	330	\$7.80	\$10.50	Short-Term OJT
Self-Enrichment Education Teachers	650	880	20	10	30	\$7.80	\$11.60	Related Experience
Semiconductor Processors	800	1,040	20	10	40			Associate degree
Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders	180	190	0	0	0			Moderate OJT
Service Station Attendants	350	490	10	20	30	\$6.90	\$9.60	Short-Term OJT
Set and Exhibit Designers	60	90	0	0	0	\$8.10	\$12.80	Bachelor's degree
Sewing Machine Operators	880	1,050	20	10	30	\$7.00	\$9.40	Moderate OJT
Sheet Metal Workers	1,860	2,330	50	40	90	\$9.30	\$15.50	Moderate OJT
Shipping, Receiving, and Traffic Clerks	5,610	6,550	90	110	210	\$8.20	\$11.30	Short-Term OJT
Skin Care Specialists	130	170	10	0	10	\$7.00	\$13.70	Vocational
Slaughterers and Meat Packers	110	130	0	0	10	\$10.20	\$12.20	Moderate OJT
Social and Community Service Managers	1,100	1,550	50	20	70	\$14.00	\$22.30	Bachelor's degree
Social and Human Service Assistants	2,320	3,810	150	40	180	\$7.80	\$11.00	Moderate OJT
Sound Engineering Technicians	270	330	10	10	10	\$6.60	\$11.50	Vocational
Special Education Teachers, Middle School	130	190	10	0	10	\$28,700	\$36,700 *	Bachelor's degree

*Annual Wage.

Note: Detail may not add to totals because of the exclusion of small occupations and rounding.

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	2000	2010	Growth	Replacements	Total	Entry	Average	
Special Education Teachers, Preschool, Kindergarten, and Elementary School	650	1,080	40	10	50	\$26,820	\$37,160 *	Bachelor's degree
Special Education Teachers, Secondary School	900	1,350	50	10	60	\$30,390	\$42,460 *	Bachelor's degree
Speech-Language Pathologists	480	770	30	10	40	\$14.60	\$20.80	Master's degree
Stationary Engineers and Boiler Operators	150	150	0	0	10	\$13.10	\$18.40	Long-Term OJT
Statistical Assistants	160	190	0	0	0	\$7.80	\$11.90	Moderate OJT
Statisticians	230	240	0	0	0	\$11.60	\$17.30	Master's degree
Stock Clerks and Order Fillers	10,400	12,430	200	370	570	\$7.50	\$10.20	Short-Term OJT
Stonemasons	50	70	0	0	0	\$16.80	\$28.70	Long-Term OJT
Structural Iron and Steel Workers	650	810	20	10	20	\$14.10	\$18.40	Long-Term OJT
Structural Metal Fabricators and Fitters	1,090	1,260	20	20	30	\$10.00	\$13.50	Moderate OJT
Substance Abuse and Behavioral Disorder Counselors	440	650	20	10	30	\$8.40	\$13.50	Master's degree
Surgeons	340	460	10	10	20			First professional degree
Surgical Technologists	430	640	20	10	30	\$10.30	\$13.90	Vocational
Survey Researchers	370	560	20	10	30	\$8.40	\$10.20	Bachelor's degree
Surveying and Mapping Technicians	570	790	20	20	40	\$11.30	\$14.10	Moderate OJT
Surveyors	380	470	10	10	20			Bachelor's degree
Switchboard Operators, Including Answering Service	1,250	1,180	0	40	40	\$7.60	\$9.70	Short-Term OJT

*Annual Wage.

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T								
Tailors, Dressmakers, and Custom Sewers	210	230	0	10	10	\$8.80	\$12.10	Related Experience
Tank Car, Truck, and Ship Loaders	130	160	0	0	10	\$11.80	\$14.70	Moderate OJT
Tapers	1,040	1,220	20	10	30	\$13.60	\$17.30	Moderate OJT
Tax Examiners, Collectors, and Revenue Agents	1,320	1,660	30	40	70	\$13.20	\$16.50	Bachelor's degree
Tax Preparers	170	230	10	0	10	\$10.20	\$25.30	Moderate OJT
Taxi Drivers and Chauffeurs	350	480	10	0	20	\$7.10	\$14.30	Short-Term OJT
Teacher Assistants	9,700	14,120	440	200	640	\$13.910	\$18,250 *	Short-Term OJT
Team Assemblers	12,180	13,650	150	210	360	\$7.90	\$10.40	Moderate OJT
Technical Writers	440	540	10	10	20	\$15.70	\$22.30	Bachelor's degree
Telecommunications Equipment Installers and Repairers, Except Line Installers	1,880	1,840	0	40	40	\$19.30	\$23.00	Vocational
Telecommunications Line Installers and Repairers	630	790	20	10	30	\$11.40	\$15.20	Long-Term OJT
Telemarketers	6,320	7,800	150	140	280	\$8.40	\$10.70	Short-Term OJT
Telephone Operators	180	110	0	10	10			Short-Term OJT
Tellers	3,400	3,450	0	160	170	\$7.80	\$9.30	Short-Term OJT
Textile Bleaching and Dyeing Machine Operators and Tenders	130	190	10	0	10			Moderate OJT
Textile Cutting Machine Setters, Operators, and Tenders	100	130	0	0	10			Moderate OJT
Tile and Marble Setters	410	510	10	10	20	\$11.10	\$17.50	Long-Term OJT
Tire Repairers and Changers	560	660	10	20	30	\$6.60	\$8.80	Short-Term OJT
Title Examiners, Abstractors, and Searchers	750	890	10	10	20	\$13.00	\$20.30	Moderate OJT
Tool and Die Makers	230	240	0	10	10	\$12.60	\$17.80	Long-Term OJT
Tool Grinders, Filers, and Sharpeners	490	430	0	10	10			Moderate OJT
Tour Guides and Escorts	70	90	0	0	0			Moderate OJT
Traffic Technicians	120	150	0	10	10			Short-Term OJT
Training and Development Specialists	1,350	1,710	40	30	60	\$11.10	\$18.90	Bachelor's degree
Transportation Attendants, Except Flight Attendants and Baggage Porters	190	260	10	10	10	\$6.20	\$8.80	Short-Term OJT
Transportation Inspectors	110	130	0	0	10	\$14.50	\$25.70	Related Experience
Transportation, Storage, and Distribution Managers	950	1,240	30	20	50	\$17.80	\$27.60	Related Experience
Travel Agents	960	1,090	10	20	40	\$7.60	\$12.00	Vocational
Travel Guides	230	290	10	10	10			Long-Term OJT
Tree Trimmers and Pruners	850	1,090	30	20	50			Short-Term OJT
Truck Drivers, Heavy and Tractor-Trailer	13,360	16,200	280	190	470	\$12.90	\$17.60	Moderate OJT
Truck Drivers, Light or Delivery Services	7,150	8,910	180	100	280	\$7.90	\$12.10	Short-Term OJT

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U								
Umpires, Referees, and Other Sports Officials	50	60	0	0	0			Long-Term OJT
Upholsterers	150	130	0	10	10	\$9.20	\$13.90	Long-Term OJT
Urban and Regional Planners	150	200	10	0	10	\$16.10	\$23.80	Master's degree
Ushers, Lobby Attendants, and Ticket Takers	830	960	10	70	80	\$6.00	\$6.50	Short-Term OJT

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V								
Veterinarians	240	340	10	10	20	\$24.00	\$33.30	First professional degree
Veterinary Assistants and Laboratory Animal Caretakers	310	460	10	10	20	\$7.20	\$8.90	Short-Term OJT
Veterinary Technologists and Technicians	180	260	10	10	10	\$6.90	\$9.00	Associate degree
Vocational Education Teachers, Middle School	190	260	10	0	10	\$18,570	\$30,250 *	Bachelor's degree
Vocational Education Teachers, Postsecondary	1,130	1,600	50	30	80	\$13.80	\$19.90	Related Experience
Vocational Education Teachers, Secondary School	440	600	20	10	30	\$34,420	\$44,150 *	Bachelor's degree

*Annual Wage.

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W								
Waiters and Waitresses	10,310	13,140	280	580	860	\$5.90	\$7.70	Short-Term OJT
Water and Liquid Waste Treatment Plant and System Operators	570	770	20	20	40	\$13.70	\$16.90	Long-Term OJT
Weighers, Measurers, Checkers, and Samplers, Recordkeeping	440	550	10	10	20	\$9.60	\$14.20	Short-Term OJT
Welders, Cutters, Solderers, and Brazers	3,060	3,780	70	90	160	\$10.20	\$13.70	Vocational
Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	440	490	10	10	20	\$9.10	\$12.20	Moderate OJT
Wholesale and Retail Buyers, Except Farm Products	950	1,020	10	30	40	\$10.80	\$21.30	Bachelor's degree
Woodworking Machine Setters, Operators, and Tenders, Except Sawing	420	460	0	20	20	\$7.10	\$10.90	Moderate OJT
Word Processors and Typists	650	640	0	10	10	\$8.00	\$11.50	Moderate OJT
Writers and Authors	1,150	1,660	50	20	80	\$8.70	\$15.00	Bachelor's degree

*Annual Wage.

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Zoologists and Wildlife Biologists								
Zoologists and Wildlife Biologists	70	80	0	0	0	\$14.90	\$20.80	Doctoral degree

*Annual Wage.

Note: Detail may not add to totals because of the exclusion of small occupations and rounding.

Source: Utah Department of Workforce Services, June 2003.